

KCEI

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DUPLICATE

Before the

FEDERAL COMMUNICATIONS COMMISSION

Washington, D.C. 20554

In re Application of:

Caprock Educational
Broadcasting Foundation

File No. BPED-831220AD
CP MOD. No. 880328M M

Amendment for
Modification of
Construction Permit
New Non-Commercial Educational
FM Station
Call Sign KAMY-FM
Lubbock, TX

RECEIVED BY

JUL 26 1988

MAIL BRANCH

To: Chief, Mass Media Bureau

AMENDMENT TO

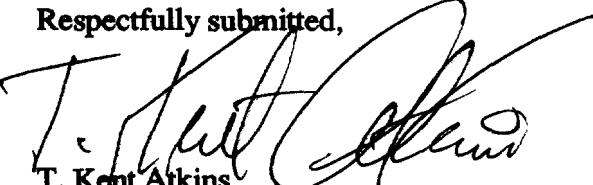
PETITION FOR RIGHT TO MODIFY CONSTRUCTION PERMIT

Comes now, Caprock Educational Broadcasting Foundation, and hereby request the Chief of the FM branch to accept the following amendment to the petition to modify the above mentioned construction permit.

On March 28, 1988 we applied for a modification of our existing construction permit. We would like to modify this application for modification to reflect minor changes in the original request, and a new tower site.

Wherefore, premises considered, and good cause having been shown, it is requested that this amendment to the petition for Modification of the above mentioned Construction Permit be accepted and made of the above referenced Construction Permit.

Respectfully submitted,


T. Kent Atkins
Trustee,

Caprock Educational
Broadcasting Foundation

CERTIFICATION

I hereby certify that all of the information is true, correct and complete to the best of my knowledge.

Dated, July 23, 1988

Signed

A handwritten signature in black ink, appearing to read "T. Paul Allen". The signature is written in a cursive style with a large, stylized "T" and "A".

**APPLICATION FOR CONSTRUCTION PERMIT FOR
NONCOMMERCIAL EDUCATIONAL BROADCAST STATION**
(Carefully read instructions before filling out Form—RETURN ONLY FORM TO FCC)

For Commission Use Only
File No.

Section I

General Information

1. Name of Applicant
Caprock Educational Broadcasting Foundation 2100 Hwy 360 Suite 1204
Street Address

City State ZIP Code Telephone No.
Grand Prairie TX 75050 (Include Area Code)

Send notices and communications to the following named person at the address below: (214) 647-1010

Name Street Address
James Oyster 8315 Tobin Road

City State ZIP Code Telephone No.
Annandale VA 22003 (Include Area Code)

2. This application is for: ☐ AM ☒ FM ☐ TV (703) 573-6765

(a) Channel No. or Frequency: 211/90.1

(b) Community of license:

City State
Lubbock TX

Check one of the following boxes:

- ☐ Application for new station
☐ Major Change in Existing station; call sign:
☐ Minor Change in Existing station; call sign:
☐ Modification of Construction Permit; File No. of CP:
☒ Amendment to Pending Application; Reference Number (ARN): 880328MM

NOTE: It is not necessary to use this form to amend a previously filed application. Should you do so, however, please submit only Section I and those other portions of the form that contain the amended information.

3. Is this application mutually exclusive with a renewal application?

☐ YES ☒ NO

If Yes, State:

Call letters:

Community of license:

City State
- - - - -

FM Broadcast Engineering Data

1. Purpose of authorization applied for:

☐ **Install Auxiliary system**

☐ Frequency

☒ Transmitter location

☐ Studio location outside community of license

☐ Other (Summarize briefly the nature of the changes proposed.)

City or Town
Lubbock

Class (Check one below)

☒ A ☐ B ☐ B1 ☐ D
☐ C ☐ C1 ☐ C2

West Longitude 101° 52' 20"

Maximum (Beam tilt only)

KW

KW

Above Ground

Vertical 150 meters 1127.7 meters 147.7 meters

☐ YES ☒ NO

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May 1985

8. Transmitter location:

State TexasCounty Lubbock

City or Town

Street Address (or other identification)

Lubbock

9802 University St.

15. Tabulation of Terrain Data. (Calculated in accordance with the procedure prescribed in Section 73.313 of the Commission's Rules utilizing 7.5 minute topographic maps, if available.)

Radial bearing (degrees true)	Height of antenna, radiation center above average elevation of radial (3-16 kilometers) Meters	Predicted Distance
		To the 1 mV/m contour Kilometers
0°	Please see Exhibit E-5	
45°		
90°		
135°		
180°		
225°		
270°		
315°		

Allocation Studies

(See Subpart C of Part 73 of the Commission's Rules and Regulations)

16. Is the proposed antenna location within 320 kilometers (199 miles) of the common border between the United States and Mexico? ☐ Yes ☒ No

If Yes, attach as Exhibit No. N/A showing of compliance with all provisions of the Agreement between the United States of America and the United Mexican States concerning Frequency Modulation Broadcasting in the 88 to 108 MHz band.

17. With regard to stations within 320 kilometers (199 miles) of the common border between the United States and Mexico, attach as Exhibit No. N/A information required in 1/.

18. If the proposed operation is for a channel in the range from channel 201 through 220 (88.1 through 91.9 MHz), then with regard to stations more than 320 kilometers (199 miles) from the common border between the United States and Mexico, or if this proposed operation is for a class D station in the range from Channel 221 through 300 (92.1 through 107.9 MHz), attach as Exhibit No. E-6 a complete allocation study to establish the lack of prohibited overlap of contours involving these stations. The allocation study should include the following:

- The normally protected interference-free and the interfering contours for the proposed operation along all azimuths.
- Complete normally protected interference-free contours of all other proposals and existing stations to which objectionable interference would be caused.
- Interfering contours over pertinent arcs of all other proposals and existing stations from which objectionable interference would be received.
- Normally protected and interfering contours over pertinent arcs, of all other proposals and existing stations, which require study to show the absence of objectionable interference.
- Plot of the transmitter location of each station or proposal requiring investigation, with identifying call letters, file numbers and operating or proposed facilities.
- When necessary to show more detail, an additional allocation study will be attached utilizing a map with a larger scale to clearly show interference or absence thereof.
- A scale of miles and properly labeled longitude and latitude lines, shown across the entire (Exhibit(s)). Sufficient lines should be shown so that the location of the sites may be verified.
- The name of the map(s) used in the exhibit(s).

- 1/ A showing that the proposed operation meets the minimum distance separation requirements. If any separations are proposed that are less than the applicable minimum separation requirements plus 15 kilometers, include these stations. Also include existing stations, proposed stations, and cities which appear in the Table of Assignments; the location and geographic coordinates of each antenna, proposed antenna or reference point, as appropriate; and distance to each from proposed antenna location.

19. Is the proposed antenna location within 320 kilometers of the common border between the United States and Canada?

☐ Yes ☒ No

If Yes, attach as Exhibit No. N/A a showing of compliance with all provisions of the Working Agreement for Allocation of FM Broadcasting Stations on Channels 201-300 under The Canada-United States FM Agreement of 1947.

20. With regard to station separated by 53 or 54 channels (10.6 or 10.8 MHz) attach as Exhibit No. E-7 information required in 1/(separation requirements involving intermediate frequency [i.f.] interference).

Name of Applicant

Call Sign

Station Location

Caprock Educational Broadcasting Foundation KAMY Lubbock Texas

Purpose of Application (Put "X" in appropriate box)

Facilities Requested

6. Attach as Exhibit No. E-8 a vertical plan sketch for the proposed total structure (including supporting building, if any) giving heights above ground in feet and meters for all significant features. Clearly indicate existing portions, noting lighting, and distinguish between the skeletal or other main supporting structure and the antenna elements.

I certify that I represent the applicant in the capacity indicated below and that I have examined the foregoing statement of technical information and that it is true to the best of my knowledge and belief.

T. Kent Atkins

Name

T. Kent Atkins

Signature (Check appropriate box below)

2100 Hwy 360, Suite 1204

Address (include ZIP Code)

Grand Prairie, TX 75050

(214) 647-1010

Telephone No. (Include Area Code)

☒ Technical Director

☐ Registered Professional Engineer

☐ Other (specify)

☐ Technical Consultant

☐ Chief Operator

Transmitter is located at the center of the innermost circle, with a North Latitude of 33° 30' 8" West Longitude of 101° 52' 20"

Exhibit E-1
Area in square miles within the 1 mV/m contour is 655.1 miles or 1696.7 SQ Kilometers
Population within the 1 mV/m contour is 170,313

ARRIVING VFR AIRCRAFT SHOULD CONTACT APPROACH CONTROL WITHIN 20 NM ON 118.1 331.8

Legal City Limits

1 mV/m

180°

REESE 4 MOA

KILOMETERS
NAUTICAL MILES
STATUTE MILES

TERRY COUNTY
32631 40122.8

Grossland

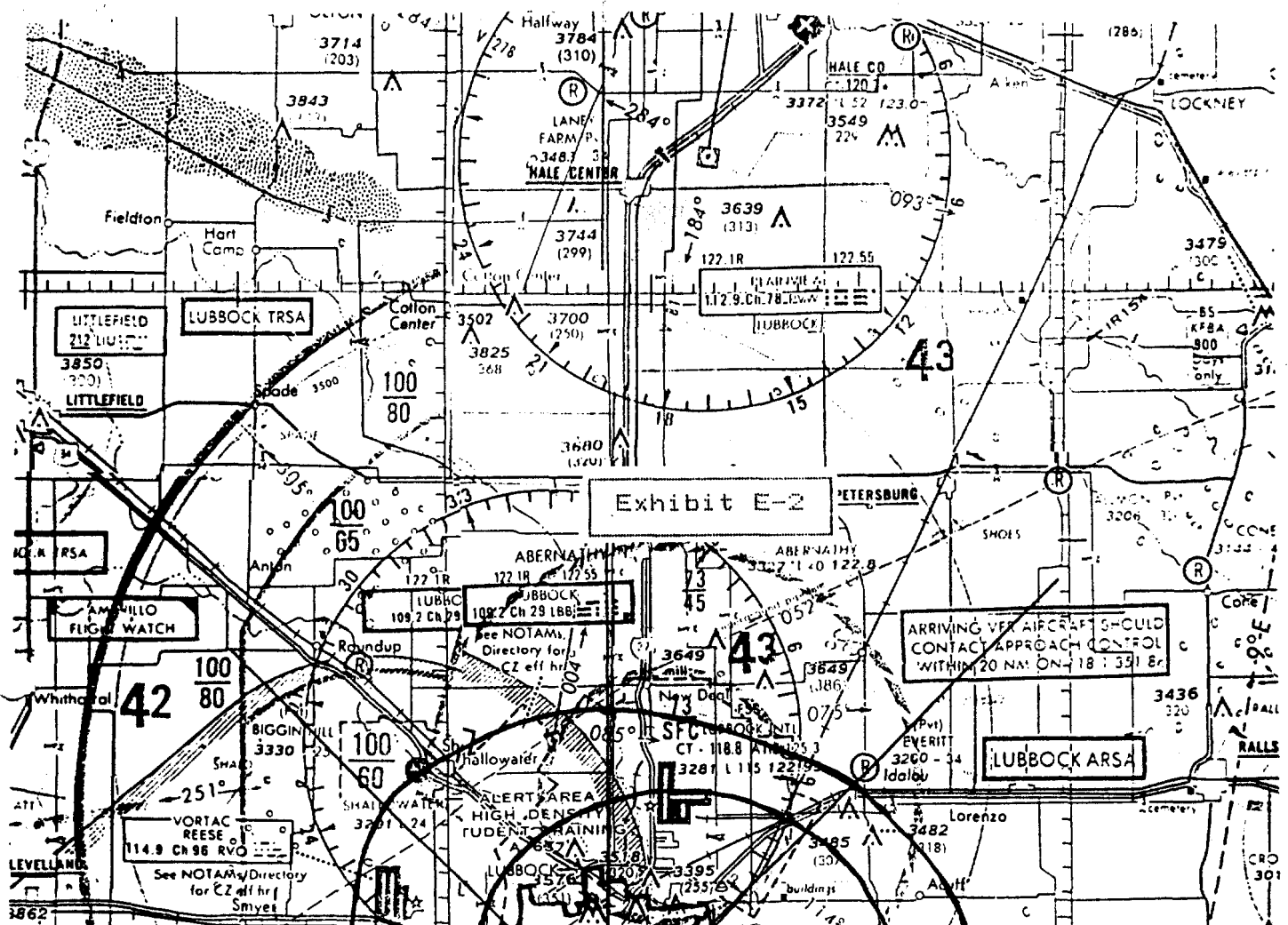


Exhibit E-4

This Applicant has determined that there will be no blanketing at the proposed antenna site. The immediate area is a commercially zoned area, and as such is sparsely populated. The transmitter site has been used by a full power UHF television station for the past five years without any blanketing problems.

Should any blanketing interference occur the Applicant will purchase any filters or take other such steps necessary to remedy the problem.

The Applicant assumes full responsibility for any such problems should they arise.

July 23, 1988

Exhibit E-5

Section V-B, 15 Of FCC Form 340

Caprock Educational Broadcasting

Lubbock Texas

Channel 211 Class A

Bearing	Average Terrain Radial (ft/mt)	Radiation Center A.A.T. (ft/mt)	3.16 mV/m (70 dBu) (mi/km)	1 mV/m (60 dBu) (mi/km)
0	3200.0/ 975.4	499.6/ 152.3	8.2/ 13.1	14.6/ 23.4
45	3152.2/ 960.8	547.4/ 166.9	8.6/ 13.8	15.2/ 24.3
90	3141.5/ 957.5	558.1/ 170.1	8.7/ 13.9	15.4/ 24.6
135	3165.0/ 964.7	534.6/ 163.0	8.5/ 13.6	15.0/ 24.0
180	3200.7/ 975.6	498.9/ 152.1	8.2/ 13.1	14.5/ 23.2
225	3271.2/ 997.1	428.4/ 130.6	7.6/ 12.2	13.5/ 21.6
270	3286.7/1001.8	412.9/ 125.9	7.4/ 11.8	13.3/ 21.3
315	3243.9/ 988.7	455.8/ 138.9	7.8/ 12.5	13.9/ 22.2

The Center Of Radiation Above Mean Sea Level is 3699.6 Feet or 1127.7 Meters

The Average Terrain Elevation is 3207.6 Feet or 977.7 Meters

The Radiation Center Above Average Terrain (HAAT) is 492.0 Feet or 150.0 Meters

The Area Within the 1 mV/m Contour is 655.1 Miles or 1696.8 Kilometers

July 23, 1988

The following exhibit is labeled E-5b and is now included for completeness and to show the predicted contours of a full Class A operating at the maximum 3 KW power and at 100 meters hieght, at the same site.

It is shown by comparison and should be noted, that the predicted

T. Kent Atkins
Dallas, Texas

Exhibit E-7

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FM Interference study

Title: LUBBOCK KJTV SITE CLASS A

Channel 211A (90.1 MHz) ERP: 3 kW; EAH: 100 m

Database: DW 07/20/88

Latitude: 33-30-08

Longitude: 101-52-20

Safety zone: 65 km

Call	Auth	Licensee name	Chan	ERP-kW	Latitude	Br-to	Dist.	Req.
City of License	St	FCC File no.	Freq	EAH-m	Longitude	-from	(km)	(km)
KENW-FM LIC	BD OF REGENTS	EASTERN NM	*208C1	100	34-10-27	299.1	155.8	43.21
PORTALES	NM		89.5	56	103-21-03	118.3	112.6	CLEAR
Proposed F(50,50) 100 dBu = 2.201 km; KENW-FM F(50,50) 60 dBu = 41.01 km								
Proposed F(50,50) 60 dBu = 24.32 km; KENW-FM F(50,50) 100 dBu = 4.371 km								

ALLOC			*209A		32-19-12	205.8	145.5	32.00
ANDREWS			89.7		102-32-48	25.4	113.5	CLEAR
Proposed F(50,50) 80 dBu = 7.676 km; ALLOC F(50,50) 60 dBu = 24.32 km								
Proposed F(50,50) 60 dBu = 24.32 km; ALLOC F(50,50) 80 dBu = 7.676 km								

ALLOC			*210A		32-44-06	185.4	85.47	60.70
LAMESA			89.9		101-57-30	5.3	24.77	CLEAR
Proposed F(50,10) 54 dBu = 36.38 km; ALLOC F(50,50) 60 dBu = 24.32 km								
Proposed F(50,50) 60 dBu = 24.32 km; ALLOC F(50,10) 54 dBu = 36.38 km								

KAMY	CP	CAPROCK	ED BCG FOUND	*211A	.50	33-32-31	48.1	6.611	89.34
LUBBOCK			TX BPED-840626IE	90.1	82	101-49-09	228.1	-82.7	SHORT
CP Granted 10/15/87; Was KCEI 04/08/88									
Proposed F(50,10) 40 dBu = 75.30 km; KAMY F(50,50) 60 dBu = 14.04 km									
Proposed F(50,50) 60 dBu = 24.32 km; KAMY F(50,10) 40 dBu = 48.04 km									

KAMY	APP	CAPROCK	ED BCG FOUND	*211A	1.50	33-36-32	48.1	17.79	99.05
LUBBOCK			TX 880328MM	90.1	134	101-43-45	228.2	-81.3	SHORT
Was KCEI 04/08/88									
Proposed F(50,10) 40 dBu = 75.30 km; KAMY F(50,50) 60 dBu = 23.75 km									
Proposed F(50,50) 60 dBu = 24.32 km; KAMY F(50,10) 40 dBu = 70.41 km									

ALLOC			*211A		32-42-00	233.1	147.4	99.61
HOBBS			90.1		103-07-54	52.4	47.82	CLEAR
Proposed F(50,10) 40 dBu = 75.30 km; ALLOC F(50,50) 60 dBu = 24.32 km								
Proposed F(50,50) 60 dBu = 24.32 km; ALLOC F(50,10) 40 dBu = 75.30 km								

ALLOC			*211A		32-23-42	142.4	154.8	99.61
COLORADO CITY			90.1		100-51-54	322.9	55.14	CLEAR
Proposed F(50,10) 40 dBu = 75.30 km; ALLOC F(50,50) 60 dBu = 24.32 km								
Proposed F(50,50) 60 dBu = 24.32 km; ALLOC F(50,10) 40 dBu = 75.30 km								

KPI N-FM LIC PLAINS INDEPENDENT SCHOOL *210A

32-11-15 240 E 05 00 44 24

T. Kent Atkins
Dallas, Texas

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FM Interference study

Title: LUBBOCK KJTV SITE CLASS A

Channel 211A (90.1 MHz) ERP: 3 kW; EAH: 100 m

Latitude: 33-30-08

Longitude: 101-52-20

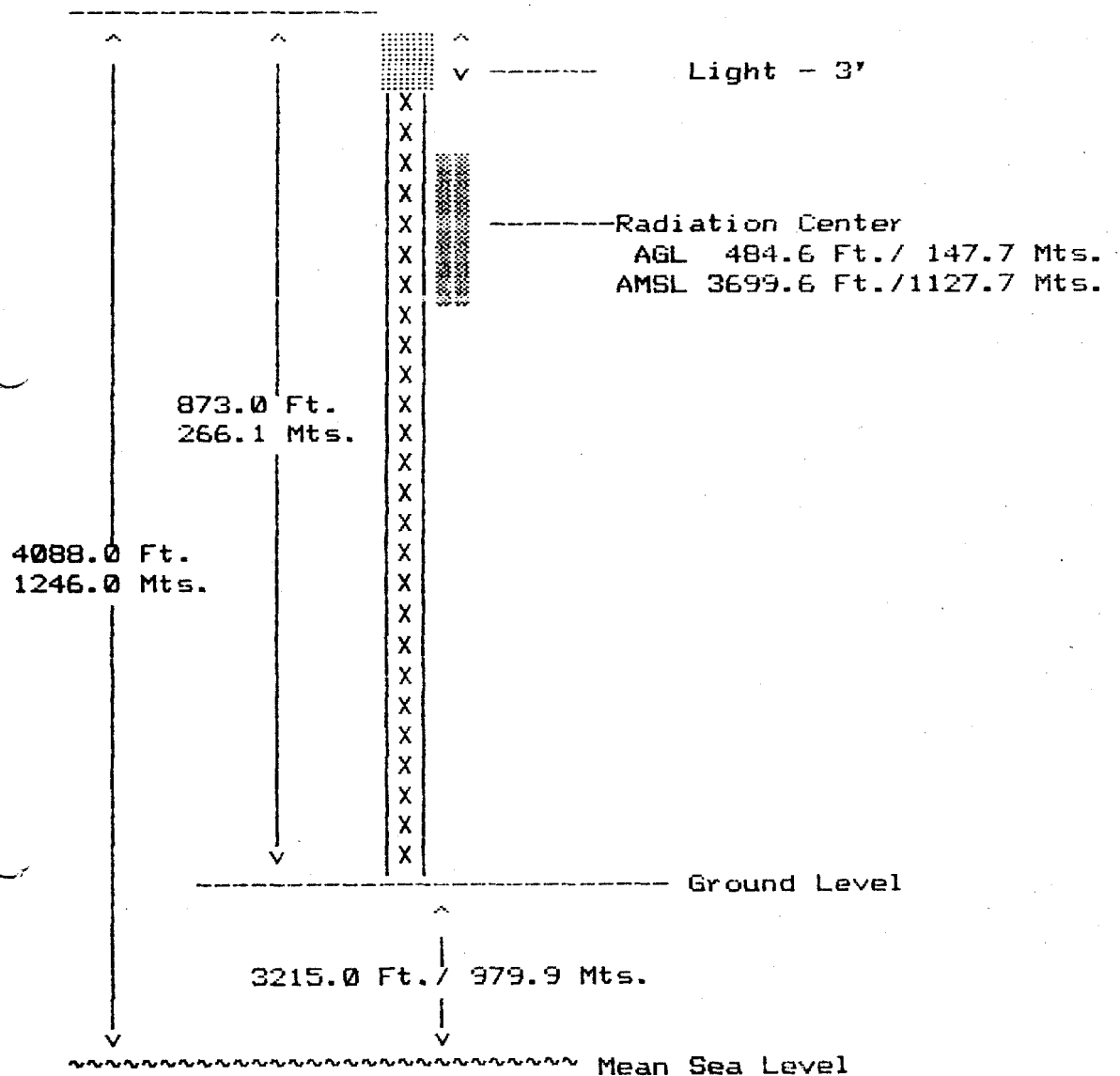
Call	Auth	Licensee name	Chan	ERP-kW	Latitude	Br-to	Dist.	Req.
City of License	St	FCC File no.	Freq	EAH-m	Longitude	-from	(km)	(km)

KJTV	TX	8450004	FM	3	33-30-08	101-52-20	07	01
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July 23, 1988

Exhibit E-8

Vertical Plan Sketch of Total Structure Channel 211 Class A



NOTE : NOT TO SCALE

Element Depictions are Purely Symbolic

Shively Laboratories FM Antenna Model 6810
8 Bays - Power Gain 4.4 (6.43 db)
Vertical Aperture 77 Feet